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beam emitted by the first portion and the amplifying region increases the intensity of the light beam. (Abstract, Strzelecki).

In order to support a rejection under 35 U.S.C. §102, *every* limitation in the claims should be shown or suggested by the reference. The Strzelecki reference fails to meet this burden for at least the reason that it neither describes nor suggests “...said rear mirror having a phase compensated reflector to act as an output coupler for a lasing mode and *to reflect pump light at a proper phase so as to provide phase shifted reflected pump light for a second pumping pass through said gain region...*” Although Strzelecki describes, at paragraph 50 “First DBR stack 106 begins with a  $\frac{3}{4}\lambda$  thick layer engineered for tapered oxidation and is followed by 29.5 layer pairs of GaAs/AlO ... as a 46 nm layer that serves to compensate for the phase of the GaAs/Al reflection, there is no description or suggestion of a ‘second pumping pass through the gain region’ as recited in the claims. In fact, it would appear, as best understood by the Applicant, that the DBR layers are specifically selected to prevent such double pumping.

Accordingly, for at least this reason, claim 1 is patentably distinct over Strzelecki, and the rejection should be withdrawn. Dependent claims 2-13 serve to add further patentable limitations to claim 1, and are allowable for at least the reasons put forth above with regard to claim 1.

Applicants have made a diligent effort to place the claims in condition for allowance. However, should there remain unresolved issues that require adverse action, it is respectfully requested that the Examiner telephone Lindsay G. McGuinness, Applicants' Attorney at 978-264-6664 so that such issues may be resolved as expeditiously as possible.

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For these reasons, and in view of the above amendments, this application is now considered to be in condition for allowance and such action is earnestly solicited.

Respectfully Submitted,

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Date

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